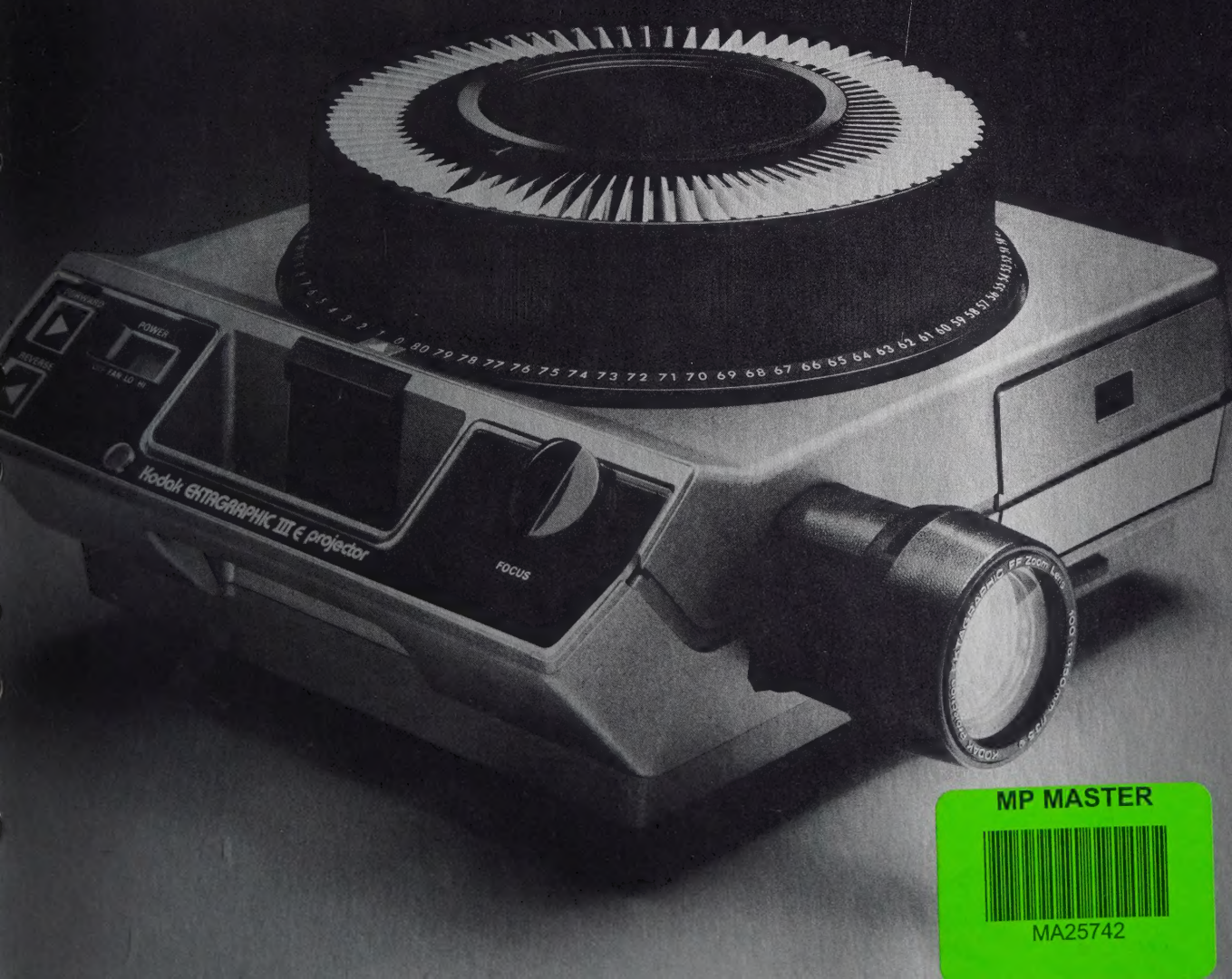
Operating
Instructions

KODAK EKTAGRAPHIC III PROJECTOR



MP MASTER
MA25742

See outside back cover
for **IMPORTANT SAFEGUARDS**.

Introduction

Your new *KODAK EKTAGRAPHIC* III E Projector enables you to project 2 x 2 slides in a wide range of transparency sizes—including 126, 135, 828, 127, and 110.

The III E Projector also provides many important features for your convenience:

- Easy rear lamp change.
- Increased elevation range with push-button release.
- Increased illumination and uniformity.
- Standby light to indicate "go" condition for dissolve projection.
- Reading light to aid the projectionist in darkened areas.
- Select bar for quick slide tray removal—with *or* without power.
- Special-application receptacle for additional projector function flexibility.
- Remote control and spare lamp storage compartment.
- Rear index mark for positioning slide tray from the back.
- Dark-screen shutter to eliminate empty-gate light flashes.
- Vertical and horizontal slide registration, a necessity for effective dissolve and multi-image shows.
- Coated condenser optics.
- Illuminated control panel that also includes dimming capability.
- Two threaded sockets in base for mounting on stands or similar supports.
- Long-life drive motor.
- Permanent 3-wire grounded power cord.

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MP MASTER
MA25742

TRAY # EVEN 1
PROGRAM NAME
TRAY # ODD 1
PROGRAM NAME
TRAY # ODD 2
PROGRAM NAME
TRAY # EVEN 2
PROGRAM NAME

Detailed Operating Instructions

Projecting Your Slides

Installing/Removing Projection Lens

To install or remove the projection lens **(A1)**, push the lens focus and release knob up as you insert or withdraw the lens **(b)**. Also, when inserting the lens, position the threaded rack of the lens barrel toward the lower left to engage the pinion on the focus-knob shaft.

Installing Slide Tray

Place a loaded slide tray on the projector so that the hole in the center of the tray fits over the center post. Then turn the tray until the "0" slide slot is at the gate index and the tray drops into position. If the tray doesn't drop easily, check the slide retainer plate. (See instructions packed with tray.)

Removing Tray

You can remove the tray at any time—whether the power is on or off:

- First, press the select bar **(C4)** and hold it down. (If the power is off, push the bar *all* the way down.)
- Then rotate the tray until the "0" slot is at the gate index.
- Release the select bar and remove the tray.

If the Tray Jams . . .

Usually a slide is caught in the gate. To release the tray

- Turn the coin-slotted tray-removal screw **(c)** as far as possible in either direction and hold it there while lifting off the tray.
- Remove the jammed slide **(d)** by pressing the select bar.
- Check lock ring tightness **(e)**; invert the tray and turn the bottom plate until it locks.
- Turn the tray upright and remove the lock ring. If the slide is undamaged, replace it. Replace the lock ring; return the tray to the correct slide position to resume your program.

Selecting Your Projection Mode

Move the power-selector switch **(C1)** to LO for maximum lamp life or HI for maximum brightness. The FAN position is intended for use with a dissolve control.

NOTE: Your slide projector's built-in shutter automatically blocks the projection beam when the gate is empty, so no light reaches the screen. When a slide is in the gate, the shutter opens.

Going Forward or Reverse?

Briefly press the forward **(C2)** or reverse **(C5)** button to change your slides. For quick random selection of any slide the tray, hold down the select bar, manually rotate the tray directly to the desired slide, and release the select bar.

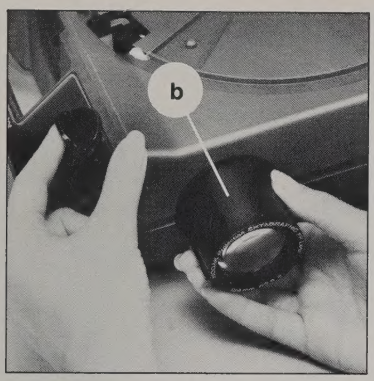
Elevating and Leveling the Projector

If it is necessary to raise your projector for image-height adjustment, lift the projector to the desired height and press the elevation foot release button **(f)**; the foot **(A2)** will quickly drop into position and remain there once the button is released. Turn the elevation wheel **(A3)** for precise positioning.

Turn the leveling wheel **(B1)** to raise or lower the right side of the image.

Focusing the Projector

Focus the first image with the lens focus and release knob **(C3)**. If a zoom lens is used, adjust image size by rotating the lens barrel and then refocus. Only the first slide requires focusing if all slides are in the same type of mount.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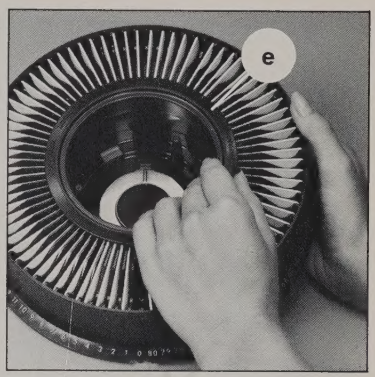
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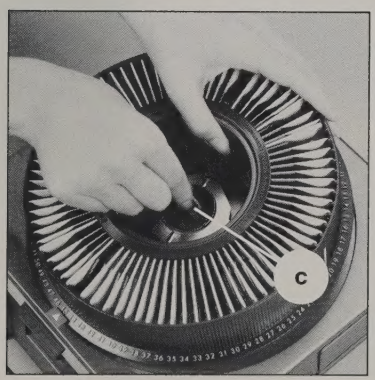
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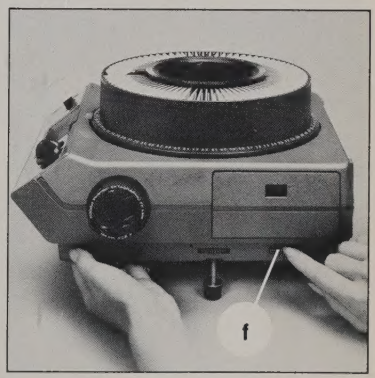
f

d

For Your Convenience

Standby Light

The standby light **(B2)** glows green to indicate a "go" condition for the start of a show. When the projector is used in a dissolve program, the light will glow to indicate the following:

- the projector is receiving power.
- the power switch is at FAN.
- the projection lamp is properly installed, not burned out, and ready to light.
- the standby light itself is working.
- both thermal fuses are functional.

NOTE: The standby light dims noticeably as the projection lamp intensity fades in and out for each dissolve cycle; the green light goes out completely when the power-selector switch is at HI. (A very slight glow may be visible at LO.)

Reading Light and Illuminated Control Panel

The reading light **(B3)** and illuminated control panel make it easier to show your slides in a darkened room. To use the reading light, just lift the cover and place your script or notes under the light **(g)**. (The control panel may be dimmed by sliding a shutter **(h)**—located on the right side of the lamp module—to the left.)

Special-Application Receptacle

The special-application receptacle **(B4)** provides access to your projector's circuitry and allows for a number of additional functions. The receptacle accepts 8-contact plugs as well as "DIN"-type plugs with 3 or 5 contacts* at 180°. (See diagram.)

IMPORTANT: *All equipment, cables, and connectors used with the special-application receptacle must be assembled by qualified electronics personnel. All circuits connected electrically to the projector through the special-application receptacle must have a rating of no more than 30 V (rms) and must also comply with Underwriters' Laboratories, Inc. low-voltage, limited-energy circuit requirements.*†

At the right are functions of each pin-number configuration:

Contacts Required for Function	Function
1&3	Zero-Position Switch
4&5	Shutter Switch
7&8	Low-Voltage Supply
6&8	Forward Tray Cycle
2&8	Reverse Tray Cycle
Shell	Plug Ground

*If you cannot locate a supplier of the specific plug type needed, contact Kodak, Dept. 625, Rochester, NY 14650 for ordering information.

†Low-voltage, limited-energy circuit requirements may be found in *UL-122, Photographic Equipment,* available from Underwriters' Laboratories, Inc., 333 Pfingsten Road, Northbrook, IL 60062.

Description

nnects to an internal single-pole
le-throw normally open switch.
ntacts are closed when the
jector slide tray is at any position
ner than zero. These leads connect
ly to the switch terminals. Do not
ceed a switching load of 1 A at
V ac.

nects to an internal single-pole
gle-throw normally closed switch.
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e projector gate and the shutter is
en. These leads connect only to the
itch terminals. Do not exceed a
itching load of 1 A at 30 V ac.

r operating external equipment. The
rrent is supplied by a secondary
nding on the main motor, isolated
n the line-voltage power, and is
ilable whenever the main projector
tor is running. Supply is 25.5 V,
0 mA (½ A) maximum. Contact
mber 8 is common (return) for the
mote-control circuit. Contact number
s the "hot" lead and is fused with a
w-blowing fuse. (Replacement
quires disassembly of the projector
a qualified technician.)

nnects to the forward tray-advance
uitry in the projector. These
ntacts are connected internally to
e remote-accessory receptacle and
electrical connection made at
er receptacle will result in a
ard cycle.

nnects to the reverse tray-advance
cuitry in the projector. These
ntacts are connected internally to
e remote-accessory receptacle and
electrical connection made at
er receptacle will result in a
erse cycle.

plug with a conducting shell is
d, it is connected to the projector
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ound through the projector's power
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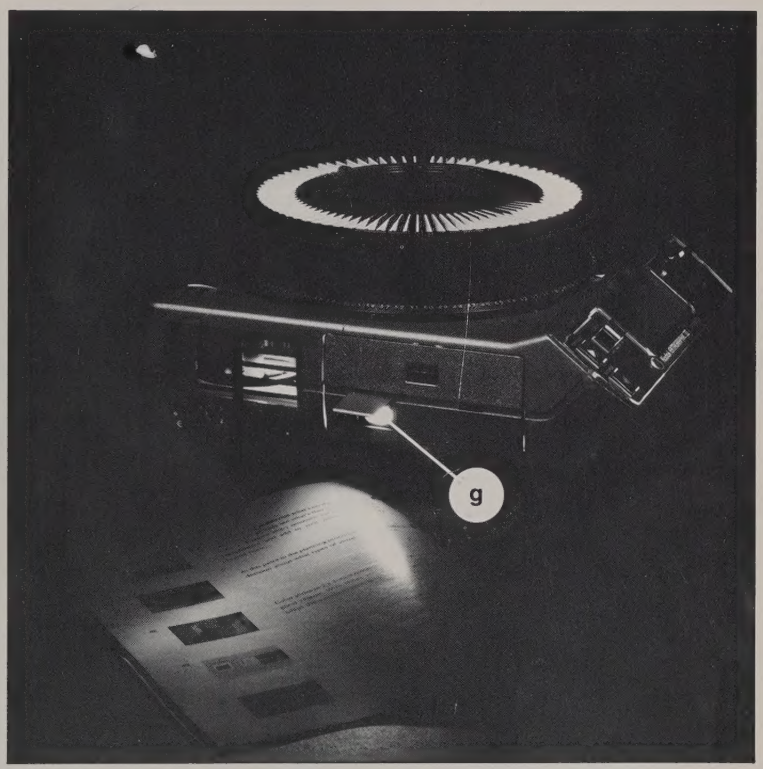
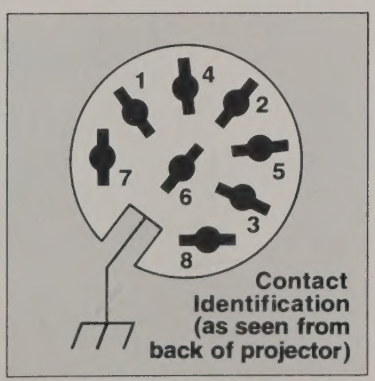
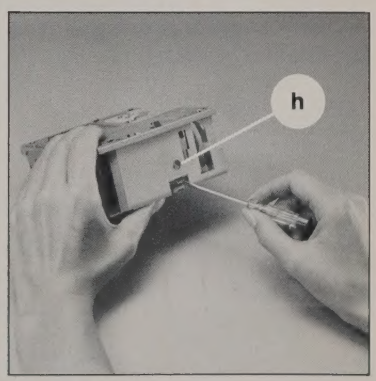




Contact Identification (as seen from back of projector)



Replacing the Projection Lamp

CAUTION: *The lamp may be hot! You may wish to run the fan to cool the lamp or use a cotton cloth to protect your fingers if you should touch the lamp before it has cooled.*

To replace a burned-out lamp, open the lamp door **(B5)** by pressing down on the latch. Grasp the small pull-out handle **(i 1)** on the lamp module **(i 2)** and pull slowly until it stops. Push the lamp-ejector lever **(i 3)** down and away from you so that it clears the retaining clip **(i 4)**; then raise the lever and remove the lamp **(j)**.

Insert a new lamp tightly into the two slots of the socket. *Do not touch the small bulb. If you accidentally get fingerprints on the bulb, remove them with a soft cloth moistened with rubbing alcohol.* (Note that you can keep an extra lamp in the spare lamp holder of the storage compartment **(A4)**.)

Relatch the lamp-ejector lever. Press down on the lamp base **(k)** until it is properly seated. Then push the lamp module back into the projector and close the lamp door.

NOTE: The lamp module—complete with condenser optics and heat-absorbing glass—is also available as an accessory from most dealers in Kodak audiovisual products. Refer to *KODAK* EC Lamp Module, CAT No. 145 0154, for pricing and ordering information. The greatest advantage of the lamp module is that during a presentation you can just remove the module with the burned-out lamp and insert another module with a fresh lamp *in just a few seconds*—without changing the projector alignment.

Cleaning the Projection Lens

Remove the projection lens and blow off any loose grit. Then wipe both surfaces with *KODAK* Lens Cleaning Paper, or with a clean cloth moistened with a drop of *KODAK* Lens Cleaner. (Equivalent products are available and may be used if desired.) Fingerprints reduce the brightness and clarity of screen images; a little dust does not.

Cleaning Condenser Optics

CAUTION: *The heat-absorbing glass may shatter unexpectedly. Allow the glass to cool before handling. Be careful! Any time the glass is exposed, cover it with a cloth to confine potential shattering, and handle the glass gently.*

Open the lamp door and remove the lamp module by pulling it out of the projector as you push the stop latch **(l)** to the left. Next, loosen the small retaining screw **(m1)** and raise the hinged bracket **(m2)**. Then carefully lift out the condenser lens **(m3)** and heat-absorbing glass **(m4)** and place them in a soft cloth.

IMPORTANT: *Slide and lens damage will usually result if the heat-absorbing glass is not replaced.*

Wipe the condenser lens and heat-absorbing glass with either *KODAK* Lens Cleaning Paper or a clean cloth. Do not leave fingerprints on the surfaces. Use a soft cloth to replace the lens and glass. Lower the bracket and tighten the retaining screw.

Invert the lamp module to reach the mirror **(n)** through the opening. (The mirror is permanently aligned and should not be moved.) Wipe the mirror surface as described above. Slide the module back into the projector while pushing the stop latch to the left, and close the lamp door.

Allowing Proper Ventilation

If you use your projector in a confined or dusty area—particularly where a wall or partition blocks the fan outlet—*poor ventilation may cause overheating.* If the built-in thermal fuses open and the projector stops, you will need to contact a Kodak equipment service

er or other competent
ir service to have the fuses
placed and, if necessary,
projector repaired. (See
esses on the back cover
r the Kodak center nearest
ou.) *Be sure to correct the*
ause of overheating before
einstalling the repaired
ojector.

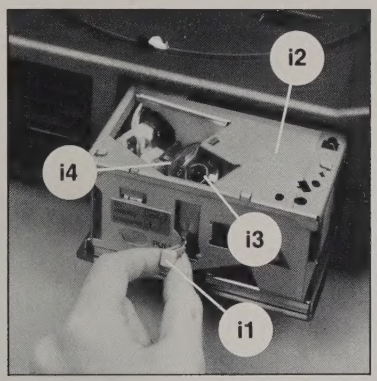
For additional information
Kodak projector ventilation
equirements, write to Eastman
odak Company, Dept. 412L,
43 State Street, Rochester,
Y 14650, and request a free
opy of *KODAK* Publication
o. S-80-6, *Ventilation, Noise*
ontrol, and Heavy-Duty
ration of KODAK Projectors.

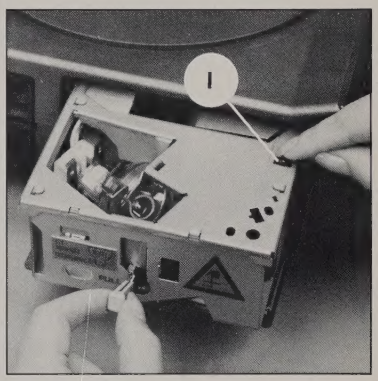
ermal Fuses

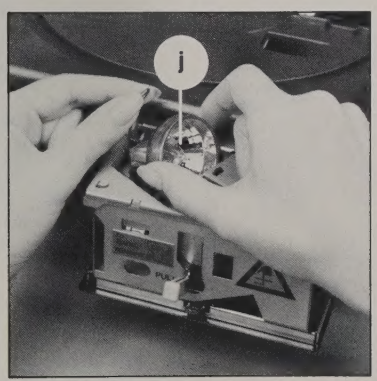
our projector has two thermal
ses to prevent dangerous
verheating in case of ventila-
on blockage, exhaust fan, or
otor failure. If overheating
auses the fuses to open, this
dicates that the projector has
hot enough to cause
sible damage. The projector
ill not operate and will require
hecking and repair by a quali-
service technician at a
ak service center or other
ompetent repair service.

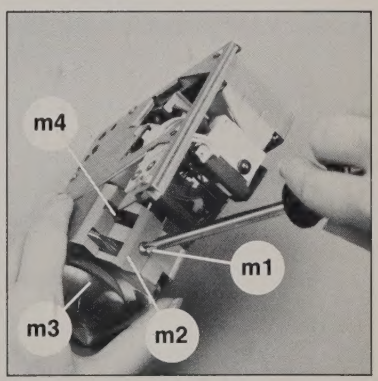
OTICE: If you modify this projector,
literate the UL and CSA labels. Modi-
d equipment must conform to elec-
al and other codes and to safety
ements. In addition, this projector
ject to minor appearance
anges

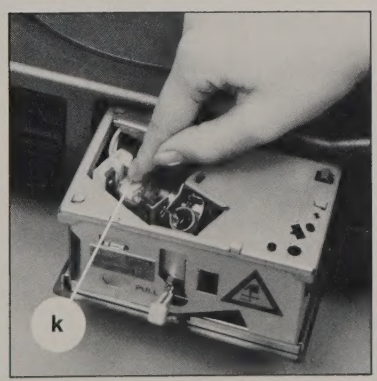
IAL NUMBER: The serial number of
projector is stamped on the cord-
retainer underneath. Record this
mber—as well as the model identifi-
tion, date, and place of purchase—for
ssible future reference.

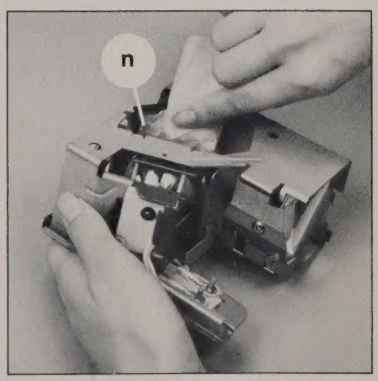












Accessories from Kodak

Now that you are fully familiar with the numerous professional features of your *EKTAGRAPHIC* III Projector, you may also wish to consider the wide range of Kodak accessory equipment and production aids that are available to help make your projector even more versatile. Kodak offers slide trays, automatic timers, projection lenses, dissolve controls, and tray bands for both single and dissolve projection. For further details on Kodak's full line of professional AV equipment, contact your local dealer in Kodak audiovisual products.

Publications from Kodak

Two Kodak publications that will help you satisfy your communication needs are described below and can be obtained through your local dealer in Kodak audiovisual products, or directly from Eastman Kodak Company.

Planning and Producing Slide Programs (*KODAK* Publication No. S-30)

This extremely popular book provides a wealth of practical ideas for use in planning and producing effective slide presentations. Planning slide shows, selecting film and equipment for photography, exposing film, preparing and shooting artwork, duplicating your slides, producing the sound track, handling and storing slides, and many more valuable topics are covered in this comprehensive, heavily illustrated publication.

The Sourcebook—*KODAK EKTAGRAPHIC* Slide Projectors (*KODAK* Publication No. S-74)

A central source of information for professional users of *KODAK EKTAGRAPHIC* Slide Projectors, The Sourcebook provides detailed technical information on the features and functions of most *EKTAGRAPHIC* Slide Projectors.

Approximately 250 additional Kodak publications containing information on topics referred to in these instructions are also availab Detailed descriptions of these publications, together with ordering instructions, are included in *The Communicator's Catalog from Kodak* (*KODAK* Publication No. S-4 Also listed are available-for-purchase "how-to" movie and slide-tape programs on equipment use and applications. To obtain a free copy of the catalog, write to Eastman Kodak Company, Dept. 412L, 343 State Street, Rochester, NY 14650.

Specifications

Height—4.9 in. (124 mm) without tray
Width—12.9 in. (328 mm)
Length—11.1 in. (282 mm)
Weight (approx)—12 lb (5.4 kg)
Power required—110 to 125 V, 60 Hz, 400 W
Tie-down points—Two threaded sockets in base that accept ¼ in. (6.35 mm) x 20-thread bolts.

(One of the sockets is under the cord-wrap retainer; the other socket is accessible by unscrewing the rear leveling foot.)

Construction

- Glass-filled polycarbonate housing.
- Long-life motor provides more bearing lubrication than motors used in nonprofessional projectors.
- Lifetime lubrication for dependable operation.
- Direct-current solenoid for greater reliability and reduced electromagnetic interference (EMI).
- Improved focus motor that minimizes EMI.

Safety

- Attached 3-wire grounding power cord.
- Thermal fuse provided at both projection lamp and motor to shut off power and prevent dangerous overheating.
- UL listed for normal and unattended information display use; CSA approved.

Optical System

Quartz-halogen 82 V projection lamps:

- Furnished: ANSI Code EXR, 300 W (medium brightness; 35-hour lamp life at HI)
- Optional: ANSI Code EXY (200-hour lamp life at HI); ANSI Code EXW (high brightness; 15-hour lamp life at HI); ANSI Code FHS (70-hour lamp life at HI)

Wide selection of interchangeable lenses:

KODAK Projection *EKTANAR* Lenses, 2½-inch *f*/3.5 and 3-inch *f*/3.5; *KODAK* Projection *EKTAGRAPHIC* FF Lenses, 102 mm *f*/2.8 and 124 mm *f*/2.8; *KODAK* Projection *EKTANON* Lens, 7-inch *f*/3.5; *KODAK* Projection *EKTAGRAPHIC* FF Zoom Lens, 100 to 150 mm *f*/3.5; *KODAK* Projection *EKTANAR* C Lenses, 102 mm *f*/2.8, 127 mm *f*/2.8, and Zoom, 102 to 152 mm *f*/3.5.

New Audiovisual Equipment Warranty

***KODAK EKTAGRAPHIC* III E Projector**

Kodak warrants this *KODAK EKTAGRAPHIC* III E Projector to function properly for one year from date of purchase. Kodak makes no other warranties, express, implied, or of merchantability, for this equipment.

Carefully follow all instructions in this manual to get the best results and to prevent damage to your slide projector. If this slide projector does not function properly within one year after purchase, Kodak will repair or replace the slide projector at its option and at no charge, except for worn-out projection lamps, and unless damaged by misuse or other circumstances beyond Kodak's control.

REPAIR OR REPLACEMENT IS KODAK'S ONLY OBLIGATION. KODAK WILL NOT BE RESPONSIBLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES RESULTING FROM THE SALE OR USE OF THIS SLIDE PROJECTOR, EVEN IF LOSS OR DAMAGE IS CAUSED BY THE NEGLIGENCE OR OTHER FAULT OF KODAK.

For assistance in using this slide projector, contact a dealer in Kodak audiovisual products. Such dealers are listed in the Yellow Pages of your local telephone directory under Audiovisual Equipment and Supplies. For service on this slide projector, return it through a dealer in Kodak audiovisual products, one of the Kodak Equipment Service Centers listed on the back cover, or one of the Kodak Consumer Centers. Kodak Consumer Centers are listed in the Yellow Pages under Photographic Equipment and Supplies. To help us get your slide projector back to you promptly, please enclose a note giving details of the problem, date of purchase, and your complete name and address.

IMPORTANT SAFEGUARDS

1. Read and understand all instructions.
2. Maintain close supervision when the projector is used by people not fully acquainted with correct operating procedures.
3. Take special care to avoid burns that can result from touching hot parts. Allow the projector to cool before replacing a lamp or cleaning lenses. The heat-absorbing glass may shatter unexpectedly. Handle it with care and allow it to cool before handling.
4. Do not operate this projector with a damaged cord. If the unit has been dropped or damaged, have it examined by a qualified service representative before using it again.
5. Be careful to place all cords where you or other people will not trip over them.
6. If an extension cord is necessary, use a 3-wire grounding-type cord with a minimum 4 A current rating. (Cords rated for less amperage may overheat.) Be sure to plug the power cord into a permanent, properly installed 3-wire power receptacle.
7. Never yank the cord to pull the plug from the outlet. Grasp the plug and pull it to disconnect it.
8. Do not disassemble this projector beyond the extent necessary to perform the routine maintenance procedures described in this manual. If further disassembly is required, take the projector to a qualified service representative, since incorrect reassembly can cause electric shock hazard.

SAVE THESE INSTRUCTIONS

Eastman Kodak Company Equipment Service Centers

Chamblee, GA 30341:
5315 Peachtree Industrial Blvd.

Dallas, TX 75234:
2800 Forest La.

Dayton, NJ 08810:
Rt. 130, P.O. Box 1334

Honolulu, HI 96819:
1122 Mapunapuna St.
(P.O. Box 17007, ZIP 96817)

Montreal, PQ H3E 1A1:
KODAK CANADA INC
2 Place du Commerce
Ile des Soeurs

North Vancouver, BC V6B 3Z2:
KODAK CANADA INC
1125 Keith Rd.

Oak Brook, IL 60521:
1901 West 22nd St.

Rochester, NY 14650:
800 Lee Rd.

San Ramon, CA 94583:
9100 Alcosta Blvd.

Toronto, ON M6M 1V3:
KODAK CANADA INC
3500 Eglinton Ave. West

Whittier, CA 90606:
12100 Rivera Rd.

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Rochester, New York 14650

Pub. Pt. No. 634643

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